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(21) International Application Number: PCT/US99/30843 (22) International Filing Date: 28 December 1999 (28.12.99) (30) Priority Data: 60/115,403 8 January 1999 (08.01.99) US (71) Applicant (for all designated States except US): VICAL INCORPORATED [US/US]; Suite 100, 9373 Towne Centre Drive, San Diego, CA 92121 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): PARKER, Suezanne [US/US]; 12539 Cypress Woods Court, San Diego, CA 92131 (US). HORTON, Holly [US/US]; 11791B Spruce Run Drive, San Diego, CA 92131 (US). (74) Agents: STEFFE, Eric, K. et al.; Sterne, Kessler, Goldstein & Fox P.L.L.C., Suite 600, 1100 New York Avenue, N.W., Washington, DC 20005-3934 (US).		(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 16 November 2000 (16.11.00)
(54) Title: TREATMENT OF VIRAL DISEASES USING AN INTERFERON OMEGA EXPRESSING POLYNUCLEOTIDE (57) Abstract <p>The present invention provides a method of treating a viral disease comprising administering to a mammal a polynucleotide construct comprising a polynucleotide encoding IFNω. The polynucleotide construct of the present invention can be administered free from associated with transfection facilitating agents or as a complex with at least one or more cationic lipids.</p>		

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INTERNATIONAL SEARCH REPORT

Int l Application No

PCT/US 99/30843

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/20 A61K48/00 A61P31/12 A61P31/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, MEDLINE, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>EP 0 170 204 A (BOEHRINGER INGELHEIM INT) 5 February 1986 (1986-02-05) cited in the application page 3, line 6 -page 5, line 4 page 12, line 15 - line 24 page 34 -page 47; examples 1-5 page 53 -page 58; example 8 figure 11 page 32, line 15 - line 24 page 63, line 6 -page 64, line 15 --- -/--</p>	1-32



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/30843

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>RAZ EYAL ET AL: "Systemic immunological effects of cytokine genes injected into skeletal muscle." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 90, no. 10, 1993, pages 4523-4527, XP002144215 1993 ISSN: 0027-8424 page 4523, 'Introduction' page 4525 - page 4526, 'Discussion'</p>	1-32
A	<p>WO 96 17063 A (VICAL INC) 6 June 1996 (1996-06-06) page 4, line 18 - line 24 page 5, line 33 - line 36 page 40, line 4 - line 21</p>	19-23
A	<p>DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1994 KOKOREVA L N ET AL: "Clinico-morphological characterization and effectiveness of interferon therapy in patients with chronic hepatitis delta." Database accession no. PREV199497368940 XP002144216 abstract & ZHURNAL MIKROBIOLOGII EPIDEMIOLOGII I IMMUNOBIOLOGII, no. 1, 1994, pages 55-59, ISSN: 0372-9311</p>	26
A	<p>DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 17 December 1998 (1998-12-17) AULT A: "FDA approves two new hepatitis therapies." Database accession no. PREV199900076805 XP002144217 abstract & LANCET (NORTH AMERICAN EDITION), vol. 352, no. 9145, 17 December 1998 (1998-12-17), page 1996 ISSN: 0099-5355</p>	27-31

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Information on patent family members

In: International Application No

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